

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) An electrochemical device component, comprising:  
an active metal electrode having a first surface and a second surface;  
a protective composite on the first surface of the electrode, the composite comprising,  
a first material in contact with the electrode, the first material being ionically  
conductive and chemically compatible with the active metal, wherein the first material  
comprises a material selected from the group consisting of a composite reaction product  
of the active metal with a metal nitride, a composite reaction product of the active metal  
with silicon nitride, a composite reaction product of the active metal with a metal halide,  
a composite reaction product of the active metal with a metal phosphide, a reaction  
product of the active metal with red phosphorus, and a reaction product of the active  
metal with LiPON coated with a wetting layer; and  
a second material in contact with the first material, the second material being  
substantially impervious, ionically conductive and chemically compatible with the first  
material;  
wherein the ionic conductivity of the composite is at least  $10^{-7}$  S/cm.
2. (original) The component of claim 1, further comprising a current collector on the second  
surface of the active metal electrode.
3. (currently amended) The component of claim 1, wherein the second material is  
comprised in an ~~comprises the sole~~ electrolyte in a ~~subsequently formed~~ battery cell.
4. (currently amended) The component of claim 3, wherein the second material is the sole  
electrolyte in the ~~subsequently formed battery cell further comprises an electrolyte.~~
5. (original) The component of claim 1, wherein the ionic conductivity of the second  
material is between about  $10^{-6}$  S/cm and  $10^{-3}$  S/cm.
6. (original) The component of claim 1, wherein the ionic conductivity of the second  
material is between about  $10^{-5}$  S/cm and  $10^{-4}$  S/cm.

7. (currently amended) The component of claim 1, wherein the ~~ratio of the first material to the thickness of the second material in the composite is about 10 to 1000 microns less than 1-1000.~~
8. (original) The component of claim 1, wherein the active metal of the electrode is lithium or a lithium alloy.
9. (currently amended) The component of claim 8 ~~claim 1~~, wherein the first material comprises a material selected from the group consisting of a composite reaction product of Li ~~active metal with a metal nitride  $\text{Cu}_3\text{N}$ , active metal nitrides, active metal phosphides, and active metal halides, and active metal phosphorus oxynitride glass.~~
10. (currently amended) The component of claim 9 ~~claim 1~~, wherein the metal nitride is selected from the group consisting of copper nitride, tin nitride, zinc nitride, iron nitride, cobalt nitride and aluminum nitride ~~first material comprises a material selected from the group consisting of a composite reaction product of Li with  $\text{Cu}_3\text{N}$ ,  $\text{Li}_2\text{N}$ ,  $\text{Li}_3\text{P}$  and  $\text{LiI}$ ,  $\text{LiBr}$ ,  $\text{LiCl}$ ,  $\text{LiF}$ , and  $\text{LiPON}$ .~~
11. (original) The component of claim 1, wherein the second material comprises a material selected from the group consisting of glassy or amorphous metal ion conductors, ceramic active metal ion conductors, and glass-ceramic active metal ion conductors.
12. (original) The component of claim 1, wherein the second material comprises a material selected from the group consisting of  $\text{LiPON}$ ,  $\text{Li}_3\text{PO}_4$ ,  $\text{Li}_2\text{S}$ ,  $\text{SiS}_2$ ,  $\text{Li}_2\text{S}$ ,  $\text{GeS}_2$ ,  $\text{Ga}_2\text{S}_3$ ,  $\text{LISICON}$ ,  $\text{NASICON}$ , sodium beta-alumina and lithium beta-alumina.
13. (original) The component of claim 1, wherein the first material comprises a complex of an active metal halide and a polymer.
14. (original) The component of claim 1, wherein the second material is an ion conductive glass-ceramic having the following composition:

Composition	mol %
$\text{P}_2\text{O}_5$	26-55%
$\text{SiO}_2$	0-15%
$\text{GeO}_2 + \text{TiO}_2$	25-50%
in which $\text{GeO}_2$	0-50%

TiO <sub>2</sub>	0-50%
ZrO <sub>2</sub>	0-10%
M <sub>2</sub> O <sub>3</sub>	0 < 10%
Al <sub>2</sub> O <sub>3</sub>	0-15%
Ga <sub>2</sub> O <sub>3</sub>	0-15%
Li <sub>2</sub> O	3-25%

and containing a predominant crystalline phase composed of  $\text{Li}_{1+x}(\text{M}, \text{Al}, \text{Ga})_x(\text{Ge}_{1-y}\text{Ti}_y)_{2-x}(\text{PO}_4)_3$  where  $X \leq 0.8$  and  $0 \leq Y \leq 1.0$ , and where M is an element selected from the group consisting of Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm and Yb and/or and  $\text{Li}_{1+x+y}\text{Q}_x\text{Ti}_{2-x}\text{Si}_y\text{P}_{3-y}\text{O}_{12}$  where  $0 < X \leq 0.4$  and  $0 < Y \leq 0.6$ , and where Q is Al or Ga.

15. (original) The component of claim 1, wherein the second material is a flexible membrane comprising particles of an ion conductive glass-ceramic having the following composition:

Composition	mol %
P <sub>2</sub> O <sub>5</sub>	26-55%
SiO <sub>2</sub>	0-15%
GeO <sub>2</sub> + TiO <sub>2</sub>	25-50%
in which GeO <sub>2</sub>	0-50%
TiO <sub>2</sub>	0-50%
ZrO <sub>2</sub>	0-10%
M <sub>2</sub> O <sub>3</sub>	0 < 10%
Al <sub>2</sub> O <sub>3</sub>	0-15%
Ga <sub>2</sub> O <sub>3</sub>	0-15%
Li <sub>2</sub> O	3-25%

and containing a predominant crystalline phase composed of  $\text{Li}_{1+x}(\text{M}, \text{Al}, \text{Ga})_x(\text{Ge}_{1-y}\text{Ti}_y)_{2-x}(\text{PO}_4)_3$  where  $X \leq 0.8$  and  $0 \leq Y \leq 1.0$ , and where M is an element selected from the group consisting of

Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm and Yb and/or and  $\text{Li}_{1+x+y}\text{Q}_x\text{Ti}_{2-x}\text{Si}_y\text{P}_{3-y}\text{O}_{12}$  where  $0 < X \leq 0.4$  and  $0 < Y \leq 0.6$ , and where Q is Al or Ga in a solid polymer electrolyte.

16. (original) The component of claim 1, wherein the protective composite is a laminate of discrete layers of the first material and the second material.
17. (original) The component of claim 1, wherein the protective composite comprises a gradual transition between the first material and the second material.
- 18-20. (canceled)
21. (new) The component of claim 10, wherein the metal nitride is copper nitride ( $\text{Cu}_3\text{N}$ ).
22. (new) The component of claim 8, wherein the first material comprises a material selected from the group consisting of a composite reaction product of Li with a metal halide.
23. (new) The component of claim 8, wherein the first material comprises a material selected from the group consisting of a composite reaction product of Li with a metal phosphide.
24. (new) The component of claim 8, wherein the first material comprises a material selected from the group consisting of a reaction product of Li with red phosphorus.
25. (new) The component of claim 8, wherein the first material comprises a material selected from the group consisting of a reaction product of Li with LiPON coated with a wetting layer.
26. (new) The component of claim 25, wherein the wetting layer coating is Ag.
27. (new) The component of claim 25, wherein the wetting layer coating is Sn.